



Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO.: 41577/266144	SERIAL NO.: 10/018,727
MATERIAL INFORMATION STATEMENT (Use several sheets if necessary)		APPLICANT: C. Willis, et al.	
		FILING DATE: December 17, 2001	GROUP: Unknown 176 Z

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[Signature]</i>	5,876,753	3/2/99	Timmons, et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
<i>[Signature]</i>	91037144	7/27/66	United Kingdom				
<i>[Signature]</i>	2581991	11/21/86	France (Delfort et al.)				X

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>[Signature]</i>	English-language translation of European Patent Document No. 0218722, published
	4-1987, and equivalent to FR 2581991 to Delfort et al.
EXAMINER: <i>[Signature]</i>	DATE CONSIDERED: 12/1/04
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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PTO/SB/08A (08-00)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number 10/018,727
Filing Date December 5, 2001
First Named Inventor Willis, et al.
Group Art Unit 1762
Examiner Name M. L. Pylett
Attorney Docket Number 41577/266144

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Country	Date	Translation
MSP		0 679436 A1 and A2	Europe	11/02/95	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

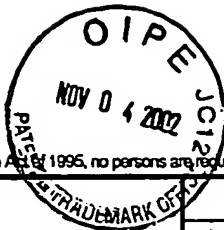
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MSP		ZHANG, J. et al., "Surface Graft Polymerization of Glycidyl Methacrylate onto Polyethylene and the Adhesion with Epoxy Resin," J. Polym. Sci., Part A: Polym. Chem., 1995, 33, 2629-2638 NOV. 15	
MSP		ALLMER, K. et al., "Surface Modification of Polymers. II. Grafting with Glycidyl Acrylates and the Reactions of the Grafted Surfaces with Amines," J. Polym. Sci., Part A: Polym. Chem., 1989, 27, 1641-1652 April	
MSP		KUBOTA, H. et al., "Reactivity of Glycidyl-Methacrylate-Grafted Cellulose Prepared by Means of Photografting," J. Appl. Polym. Sci., 1995, 56 25-31 November	
MSP		ZHANG, M.C. et al., "Thermal graft copolymerization with concurrent lamination of low density polyethylene and poly(tetrafluoroethylene) films," Polymer, 1999, 40, 299-305 April 40, number 2	
MSP		WANG, T. et al., "Surface structures and adhesion enhancement of poly(tetrafluoroethylene) films after modification by graft copolymerization with glycidyl methacrylate," J. Adhes. Sci. Tech., 1997, 11, 679-693 November	

Examiner Signature M. L. Pylett Date Considered 12/2/01

*EXAMINER: Initials if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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STATEMENT BY APPLICANT**

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Sheet 2 of 2

Application Number	10/018,727
Filing Date	December 5, 2001
First Named Inventor	WILLIS, et al.
Group Art Unit	1762
Examiner Name	ML Padgett
Attorney Docket Number	41577/266144

<i>[initials]</i>	ALLCOCK, H.R. et al., "Photoinitiated Graft Poly(organophosphazenes): Functionalized Immobilization Substrates for the Binding of Amines, Proteins, and Metals," <i>Chem. Mater.</i> , 1994, 6, 516-514 <i>april Vol 6, No. 4, pgs</i>	
<i>[initials]</i>	BAI, G. et al., "Surface modification of polyethylene film by liquid phase photograft polymerization," <i>Polym. Bull.</i> , 1998, 36, 503-510 <i>april</i>	
<i>[initials]</i>	WU, S. et al., "Surface Modification of Poly(tetrafluoroethylene) Films by Graft Copolymerization for Adhesion Improvement with Evaporated Copper," <i>Macromolecules</i> , 1999, 32, 186-193 <i>Jan 12 Vol 32, No. 1, pgs</i>	
<i>[initials]</i>	LEE, W. et al., "Tailoring a Brush-Type Interface Favorable for Capturing Microbial Cells," <i>J. Colloid Interface Sci.</i> , 1998, 200, 66-73 <i>april</i>	
<i>[initials]</i>	MORI, M. et al., "Surface Modification of Polyethylene Fiber by Graft Polymerization," <i>J. Polym. Sci., Part A: Polym. Chem.</i> , 1994, 32, 1683-1690 <i>no month</i>	
<i>[initials]</i>	YAMADA, K. et al., "Plasma-Graft Polymerization of Vinyl Monomers with Reactive Groups onto a Surface of Poly(p-phenylene terephthalamide) Fiber," <i>J. Appl. Polym. Sci.</i> , 1996, 60, 1847-1853 <i>June</i>	
<i>[initials]</i>	TSUKRUK, V. et al., "Sticky Molecular Surfaces: Epoxysilane Self-Assembled Monolayers," <i>Langmuir</i> , 1999, 15, 3029-3032 <i>april 13 Vol 15</i>	
<i>[initials]</i>	YASUDA, H., "Plasma Polymerization and Plasma Treatment", <i>Journal of Applied Polymer Science: Applied Polymer Symposium 38 and Interscience Publication</i> , (7 pages) (1984) <i>no month cover page, contents & preface only</i>	
<i>[initials]</i>	HAN, L.M. et al., "Ring Retention via Pulsed Plasma Polymerization of Heterocyclic Aromatic Compounds," <i>Chem. Mater.</i> , 1998, 10, 1422-1429 <i>no month given, but is after March</i>	
<i>[initials]</i>	HAN, L.M. et al., "Pulsed-Plasma Polymerization of 1-Vinyl-2-Pyrrolidone: Synthesis of a Linear Polymer," <i>J. Polym. Sci., Part A: Polym. Chem.</i> , 1998, 36, 3121-3129 <i>no month, but May or after</i>	
<i>[initials]</i>	SAVAGE, C.R. et al., "Molecular Control of Surface Film Compositions via Pulsed Radio-Frequency Plasma Deposition of Perfluoropropylene Oxide," <i>Chem. Mater.</i> , 1991, 3, 575-577 <i>no month, but May or after</i>	
<i>[initials]</i>	MORRA, M. et al., "Surface Characterization of Plasma-treated PTFE," <i>Surf. Interf. Anal.</i> , 1990, 16, 412-417 <i>no month Vol. 16, pgs 412, 415</i>	
<i>[initials]</i>	RYAN, et al., "Surface Texturing of PTFE Film Using Non-equilibrium Plasmas," <i>Macromolecules</i> , 1995, 28, 1377-1382 <i>Feb pgs</i>	
<i>[initials]</i>	Rosowsky, et al., "Heterocyclic Compounds with Three- and Four-Membered Rings," Part One Interscience Publishers, New York-London-Sydney, Preface and Table of Contents (9 pages) (1964) <i>no month</i>	

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Considered

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